



2001 Toxics Release Inventory

MASSACHUSETTS

Reported Releases and Other Waste Management Activities (in pounds)

	<i>Total</i>
On-site Releases	8,347,581
Air Emissions	7,447,906
Surface Water Discharges	73,437
Underground Injection Class I Wells	0
Underground Injection Class II-V Wells	0
On-site Land Releases to RCRA Subtitle C Landfills	935
Other On-site Land Releases	825,302
Off-site Releases (Transfers Off-site to Disposal)*	2,738,148
Total On- and Off-site Releases	11,085,729
Recycled On-site	12,026,251
Recycled Off-site	22,396,576
Energy Recovery On-site	4,548,040
Energy Recovery Off-site	4,392,581
Treated On-site	21,771,030
Treated Off-site**	13,646,998
Quantity Released On- and Off-site***	12,714,415
Total Production-related Waste Managed	91,495,891
Non-production-related Waste Managed	57,905
Transfers Off-site for Further Waste Management, including Disposal	
Recycling	22,676,428
Energy Recovery	4,434,819
Treatment	3,708,366
Publicly Owned Treatment Works (POTWs)	10,589,332
Metals and Metal Category Compounds*	60,141
Non-metal TRI Chemicals**	10,529,192
Other Off-site Transfers****	47,612
Transfers Off-site to Disposal (not including metals to POTWs)	2,745,651
Total Transfers Off-site for Further Waste Management, including Disposal	44,202,209

- * Transfers to POTWs of metals and metal category compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.
- ** Transfers to POTWs of non-metals are included in treated off-site waste management activity.
- *** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.
- **** Transfers reported without a valid waste management code.

For More Information . . .

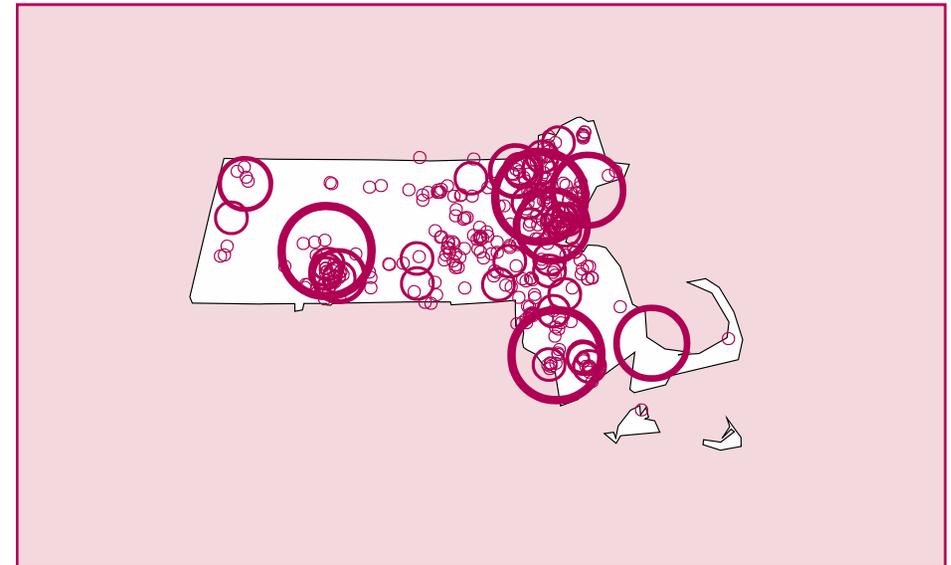
State Contact

Walter Hope
1 Winter Street
Boston, MA 02108
(617) 292-5982
Fax: (617) 292-5858
walter.hope@state.ma.us

EPA Regional Contact

Dwight Peavey
USEPA Region 1 (SPT)
1 Congress Street, Suite 11000
Boston, MA 02114-2023
(617) 918-1829
peavey.dwight@epa.gov

To obtain TRI data use assistance, call TRI User Support Service (TRI-US):
(202) 566-0250
tri.us@epa.gov



The largest circle in the state map represents the largest facility for on-site releases in the state of Massachusetts. All circles are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	6,401,164
Square Miles	7,838
Total Facilities	654
Total Forms	1,915
Form As	180

	<i>Total</i>
National Rank for Total On- and Off-site Releases*	
Rank	45
Pounds	11,085,729
National Rank for Total On-site Releases**	
Rank	45
Pounds	8,347,581
National Rank for Total Releases within State***	
Rank	46
Pounds	10,280,979
National Rank for Production-related Waste Managed	
Rank	41
Pounds	91,495,891

- * Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.
- ** Includes amounts released at the facility. Excludes amounts transferred to other sites.
- *** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



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On-site and Off-site Releases for Top Five Chemicals Ranked on Total Releases in the State (All Chemicals)

CAS Number	Chemical*	On-site Releases				Off-site Releases	Total Releases in the State***	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal** Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	3,535,076	0	0	0	0	3,535,076	0	0	0
108-88-3	Toluene	757,697	19	0	189	46,766	804,671	23,998	33,919	12,847
—	Zinc compounds	9,930	1,065	0	62,026	589,505	662,526	5,917	375,575	213,930
7664-41-7	Ammonia	591,589	6	0	0	33,235	624,830	0	14,875	18,360
—	Vanadium compounds	16,438	61,875	0	20,569	415,471	514,353	0	59,354	356,117

On-site and Off-site Releases for PBT Chemicals Ranked on Total Releases in the State

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State***	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal** Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Lead compounds	1,626.94	30.70	0.00	5,184.83	284,518.48	291,360.94	79,501.63	46,944.02	237,574.45
—	Polycyclic aromatic compounds	33,011.96	0.61	0.00	12.10	106.18	33,130.84	511.53	104.08	2.10
7439-92-1	Lead	924.66	2.00	0.00	855.22	21,274.80	23,056.68	29,081.25	4,397.06	16,877.75
—	Mercury compounds	233.50	0.00	0.00	4.20	169.90	407.60	9,210.70	86.10	83.80
191-24-2	Benzo(g,h,i)perylene	356.06	0.00	0.00	0.10	1.62	357.78	15.77	1.61	0.01
1336-36-3	Polychlorinated biphenyls (PCBs)	0.00	0.00	0.00	0.00	277.00	277.00	0.01	0.00	277.00
7439-97-6	Mercury	2.73	0.00	0.00	0.00	116.38	119.10	118.21	103.77	12.61
79-94-7	Tetrabromobisphenol A	0.00	0.00	0.00	0.00	109.00	109.00	0.00	0.00	109.00
—	Dioxin and dioxin-like compounds	0.03	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
—	<i>Dioxin and dioxin-like compounds (in grams)</i>	<i>11.451</i>	<i>0.100</i>	<i>0.000</i>	<i>0.000</i>	<i>0.223</i>	<i>11.774</i>	<i>0.209</i>	<i>0.000</i>	<i>0.223</i>
309-00-2	Aldrin	—****	—	—	—	—	—	—	—	—
57-74-9	Chlordane	—****	—	—	—	—	—	—	—	—
76-44-8	Heptachlor	—****	—	—	—	—	—	—	—	—
118-74-1	Hexachlorobenzene	—****	—	—	—	—	—	—	—	—
465-73-6	Isodrin	—****	—	—	—	—	—	—	—	—
72-43-5	Methoxychlor	—****	—	—	—	—	—	—	—	—
29082-74-4	Octachlorostyrene	—****	—	—	—	—	—	—	—	—
40487-42-1	Pendimethalin	—****	—	—	—	—	—	—	—	—
608-93-5	Pentachlorobenzene	—****	—	—	—	—	—	—	—	—
8001-35-2	Toxaphene	—****	—	—	—	—	—	—	—	—
1582-09-8	Trifluralin	—****	—	—	—	—	—	—	—	—

* One facility, Genzyme in Allston, reported 701,119 pounds of on-site releases to land of ethylene glycol in error. It has been omitted from this table, but the correction was received too late to be included in the other tables in this report.

** Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

*** The chemicals ranking is based on the amounts in this column.

**** No reports were submitted for these chemicals.



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On-site and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (All Chemicals)

Facility, City, County*	On-site Releases						Total On-site Releases** Pounds	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
USGen New England Inc., Somerset, Bristol	1,158,936	3,792	0	0	0	514	1,163,242	132,317	413,873
Northeast Generation Services Mt. Tom Station, Holyoke, Hampden	1,083,543	0	0	0	0	8,303	1,091,845	108,613	11
Somerset Power L.L.C., Somerset, Bristol	944,285	10	0	0	0	0	944,295	0	0
Salem Harbor Station, Salem, Essex	741,347	1,159	0	0	0	0	742,506	43,681	279,334
Mirant Canal L.L.C., Sandwich, Barnstable	355,785	58,308	0	0	0	67,393	481,485	0	11
Crown Cork & Seal Co. Inc., Lawrence, Essex	411,000	0	0	0	0	0	411,000	5	250
Ideal Tape Co., Lowell, Middlesex	173,430	0	0	0	0	0	173,430	0	0
MacDermid Graphic Arts, Adams, Berkshire	168,600	0	0	0	0	0	168,600	0	0
Solutia Inc., Springfield, Hampden	121,341	0	0	0	0	704	122,045	191	1
Majilite Mfg. Inc., Lowell, Middlesex	63,100	0	0	0	0	0	63,100	0	0

On-site and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (PBT Chemicals)

Facility, City, County	On-site Releases						Total On-site Releases** Pounds	Off-site Releases (Transfers Off-site to Disposal)	
			Underground Injection		On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Merrimac Paper Co. Inc., Lawrence, Essex	30,699.00	0.00	0.00	0.00	0.00	0.00	30,699.00	0.00	0.00
Mirant Canal L.L.C., Sandwich, Barnstable	175.81	2.60	0.00	0.00	0.00	2,128.00	2,306.41	0.00	10.50
David Clark Co. Inc., Worcester, Worcester	1,334.93	0.00	0.00	0.00	0.00	0.00	1,334.93	0.00	0.00
Warren Laundry Inc., Warren, Worcester	1,201.36	0.00	0.00	0.00	0.00	0.00	1,201.36	0.00	0.00
Precix Inc., New Bedford, Bristol	0.60	0.00	0.00	0.00	0.00	728.00	728.60	728.00	0.00
Solutia Inc., Springfield, Hampden	17.20	0.00	0.00	0.00	0.00	704.20	721.40	0.00	2.00
Fiberoptic Components Inc., Sterling, Worcester	0.00	0.00	0.00	0.00	0.00	683.50	683.50	0.00	0.00
Glines & Rhodes Inc., Attleboro, Bristol	5.00	0.00	0.00	0.00	0.00	511.00	516.00	0.00	0.00
Leach & Garner Co. General Findings Div., North Attleboro, Bristol	1.00	0.00	0.00	0.00	449.00	0.00	450.00	0.00	449.00
Polymer Concentrates Inc., Clinton, Worcester	0.00	0.00	0.00	0.00	2.00	356.00	358.00	0.00	0.00

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** The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



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Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (All Chemicals)

Facility, City, County*	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site** Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
USGen New England Inc., Somerset, Bristol	0	0	0	0	0	0	1,709,538	1,709,538	0
Northeast Generation Services Mt. Tom Station, Holyoke, Hampden	0	0	0	0	0	0	1,201,345	1,201,345	0
Salem Harbor Station, Salem, Essex	0	170	0	0	0	0	1,065,491	1,065,661	0
Somerset Power L.L.C., Somerset, Bristol	0	0	0	0	636,900	0	944,280	1,581,180	0
Mirant Canal L.L.C., Sandwich, Barnstable	0	0	0	0	0	0	746,230	746,230	0
Crown Cork & Seal Co. Inc., Lawrence, Essex	0	0	0	0	26,400	7	412,320	438,727	0
Hudson Lock L.L.C, Hudson, Middlesex	0	180,447	0	0	0	0	370,355	550,802	0
Allegheny Rodney, New Bedford, Bristol	0	0	35,200	21,165	500,216	3,795	348,062	908,438	0
Precision Lithograining Corp., South Hadley, Hampshire	0	0	0	0	416,700	0	282,794	699,494	0
Avedis Zildjian Co., Norwell, Plymouth	1,021,481	240,146	0	0	0	0	260,054	1,521,681	0

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (PBT Chemicals)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site** Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Clean Harbors of Braintree Inc., Braintree, Norfolk	0.00	279,717.00	0.00	0.00	0.00	0.00	135,162.00	414,879.00	5.00
American Insulated Wire Corp. Northeast, Attleboro, Bristol	460.00	15,509.00	0.00	0.00	0.00	21.00	48,322.00	64,312.00	0.00
Merrimac Paper Co. Inc., Lawrence, Essex	0.00	0.00	0.00	0.00	0.00	0.00	30,699.00	30,699.00	0.00
Comtran Corp., Whitinsville, Worcester	0.00	7,100.00	0.00	0.00	0.00	0.00	15,200.00	22,300.00	0.00
USGen New England Inc., Somerset, Bristol	0.00	0.00	0.00	0.00	0.00	0.00	14,218.00	14,218.00	0.00
Solectron Massachusetts Corp., Westborough, Worcester	0.00	8,274.00	0.00	0.00	0.00	0.00	8,274.00	16,548.00	0.00
Schott Fiber Optics Inc., Southbridge, Worcester	0.00	0.00	0.00	0.00	0.00	0.00	7,751.00	7,751.00	0.00
Mirant Canal L.L.C., Sandwich, Barnstable	0.00	0.00	0.00	0.00	0.00	0.00	6,843.00	6,843.00	0.00
United Lens Co. Inc., Southbridge, Worcester	0.00	0.00	0.00	0.00	0.00	6,367.00	6,367.00	12,734.00	0.00
Printed Circuit Corp., Woburn, Middlesex	0.00	4,418.00	0.00	0.00	0.00	0.00	4,686.00	9,104.00	0.00

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